Alexei Leliavski

Current position: Postdoctoral researcher, Dr. rer. nat.
Neuroinflammation & Mucosal Immunology Group (Guru Krishnamoorthy)

Max Planck Institute of Biochemistry

Am Klopferspitz 18, 82152

Martinsried (Munich area) / Germany

Phone: +49-(0)176-3244-7614

Email: leliavski@biochem.mpg.de

Date & place of birth: 02.08.1984, Minsk, Belarus

Education

2010–2014 — doctoral studies in the Chronophysiology Group (Prof. Dr. Henrik Oster) at Max-Planck Institute of Biophysical Chemistry (University of Göttingen) and at University of Lübeck, Germany. The PhD thesis: "Physiological functions of the adrenocortical circadian clock" (*magna cum laude*).

2008 — Master's thesis in genetics (one-year 'Magister' degree).

2002–2007 — study of biology at the International Sakharov Environmental University (ISEU) in Minsk, Belarus. Diploma thesis in immunology: "Functional activity of peripheral blood mononuclear cells in patients with secondary osteoporosis" (*cum laude*).

Work experience

08.2014–08.2018 — a postdoctoral researcher in the group of Prof. Marc Ehlers, University of Lübeck.

03.2008–12.2009 — a research assistant at the Belarusian Research Center for Pediatric Oncology and Hematology, Borovliany (Minsk region), Belarus.

Grants and Awards

07.2015–10.2017 — a grant of the Excellence Cluster "Inflammation at Interfaces" for the project "A role of immunoglobulin A N-glycosylation in chronic inflammation".

01.2015–12.2016 — "Juniorförderung" of the University of Lübeck, the junior grant J22-2015: „Identification of molecular pathways that govern the development of tolerogenic plasma cells".

19.06.2013 — a poster prize of the year 2013 at «Der Lübecker Doktorandentag „Uni im Dialog"» for the poster „Stressresistenz in Mäusen ohne innere Uhr".

2010–2011 — the Gerhardt Hunsmann Fellowship for doctoral students.

Publications

Research articles

Bartsch YC, Rahmöller J, Mertes MMM, Eiglmeier S, Lorenz FKM, Stoehr AD, Braumann D, Lorenz AK, Winkler A, Lilienthal GM, Petry J, Hobusch J, Steinhaus M, Hess C, Holecska V, Schoen CT, Oefner CM, **Leliavski A**, Blanchard V, Ehlers M. (**2018**) Sialylated Autoantigen-Reactive IgG Antibodies Attenuate Disease Development in Autoimmune Mouse Models of Lupus Nephritis and Rheumatoid Arthritis. **Front Immunol**. 9:1183.

Lilienthal GM, Rahmöller J, Petry J, Bartsch YC, **Leliavski A**, Ehlers M. (**2018**) Potential of murine IgG1 and human IgG4 to inhibit the classical complement and Fcgamma receptor activation pathways, **Front Immunol.** 9:958.

Epp A, Hobusch J, Bartsch YC, Petry J, Lilienthal GM, Koeleman CAM, Eschweiler S, Möbs C, Hall A, Morris SC, Braumann D, Engellenner C, Bitterling J, Rahmöller J, **Leliavski A**, Thurmann R, Collin M, Moremen KW, Strait RT, Blanchard V, Petersen A, Gemoll T, Habermann JK, Petersen F, Nandy A, Kahlert H, Hertl M, Wuhrer M, Pfützner W, Jappe U, Finkelman FD, Ehlers M. (**2018**) Sialylation of IgG antibodies inhibits IgG-mediated allergic reactions. **J Allergy Clin Immunol**. 141(1): 399–402.e8.

Meyer-Kovac J, Kolbe I, Ehrhardt L, **Leliavski A**, Husse J, Salinas G, Lingner T, Tsang AH, Barclay JL, Oster H. (**2017**) Hepatic gene therapy rescues high-fat diet responses in circadian Clock mutant mice. **Mol Metab**. 6(6): 512–523.

Druzd D, Matveeva O, Ince L, Harrison U, He W, Schmal C, Herzel H, Tsang AH, Kawakami N, **Leliavski A**, Uhl O, Yao L, Sander LE, Chen CS, Kraus K, de Juan A, Hergenhan SM, Ehlers M, Koletzko B, Haas R, Solbach W, Oster H, Scheiermann C. (**2017**) Lymphocyte Circadian Clocks Control Lymph Node Trafficking and Adaptive Immune Responses. **Immunity**. 46(1):120–132.

Dumbell R*, **Leliavski A***, Matveeva O, Blaum C, Tsang AH, Oster H. (**2016**) Dissociation of Molecular and Endocrine Circadian Rhythms in Male Mice Lacking Bmal1 in the Adrenal Cortex. **Endocrinology**. 157(11):4222–4233. (* equal contribution)

Landgraf D, Tsang AH, **Leliavski A**, Koch CE, Barclay JL, Drucker DJ, Oster H. (**2015**) Oxyntomodulin regulates resetting of the liver circadian clock by food. **Elife**. 30;4.

Husse J, **Leliavski A**, Tsang AH, Oster H, Eichele G. (**2014**) The light-dark cycle controls peripheral rhythmicity in mice with a genetically ablated suprachiasmatic nucleus clock. **FASEB J**. 28(11):4950–4960.

Leliavski A, Shostak A, Husse J, Oster H (**2014**) Impaired Glucocorticoid Production and Response to Stress in Arntl-Deficient Male Mice. **Endocrinology**. 155(1):133–142.

Barclay JL, Shostak A, **Leliavski A**, Tsang AH, Jöhren O, Müller-Fielitz H, Landgraf D, Naujokat N, van der Horst GT, Oster H (**2013**) High-fat diet-induced hyperinsulinemia and tissue-specific insulin resistance in Cry-deficient mice. **Am J Physiol Endocrinol Metab**. 304(10):E1053–1063.

Chu A, Zhu L, Blum ID, Mai O, **Leliavski A**, Fahrenkrug J, Oster H, Boehm U, Storch KF (**2013**) Global but not gonadotrope-specific disruption of Bmal1 abolishes the luteinizing hormone surge without affecting ovulation. **Endocrinology**. 154(8):2924–2935.

Bollinger T, Leutz A, **Leliavski A**, Skrum L, Kovac J, Bonacina L, Benedict C, Lange T, Westermann J, Oster H, Solbach W. (**2011**) Circadian clocks in mouse and human CD4+ T cells. **PLoS ONE**. 6(12):e29801.

Reviews and book chapters

Oster H, **Leliavski A**. (**2017**) Adrenal hormones. In: **The SAGE Encyclopedia of Abnormal and Clinical Psychology**, Ed.: A. Wenzel (SAGE Publications, Inc.); p. 64.

Kiehn J-T, Tsang AH, Heyde I, Leinweber B, Kolbe I, **Leliavski A**, Oster H. (**2017**) Adipose tissue circadian rhythms. **Compr Physiol.** 7(2):383–427.

Leliavski A, Dumbell R, Ott V, Oster H. (**2015**) Adrenal clocks and the role of adrenal hormones in the regulation of circadian physiology. **J Biol Rhythms**. 30(1):20–34.

Leliavski A, Oster H (**2015**) Physiology of the adrenal and liver circadian clocks; In: **Circadian Medicine** (John Wiley & Sons, Ed.: C.S. Colwell), pp.97–106.

Husse J, **Leliavski A**, Oster H (**2013**) Biological role and clinical relevance of central and peripheral circadian clocks. **Dtsch Med Wochenschr**. 138(10):493–496.

Barclay JL*, **Leliavski AA***, Oster H (**2012**) Circadian Clocks and Eating Disorders; In: **Circadian Rhythms**, Eds.: L. Golovkin & A. Maliszkewicz; pp.1–27. (* equal contribution)

Melnov SB, **Leliavski AA**, Marozik PM. (**2008**) Stem Cell Biology and Genetics [textbook; in Russian], Minsk, ISEU – 352 pp.

Referees

Prof. Dr. Marc Ehlers

Laboratories of Immunology und Antibody Glycoanalysis
Institute of Nutrition Medicine
University of Lübeck
Ratzeburger Allee 160 (Building 50)
23562 Lübeck / Germany
Phone: +49-451-3101-8410
Email: marc.ehlers@uksh.de

Prof. Dr. Henrik Oster

Institute of Neurobiology
Center for Brain, Behavior and Metabolism (CBBM)
University of Lübeck
Marie-Curie-Straße (Building 66)
23562 Lübeck / Germany
Phone: +49-451-3101-4300
Email: henrik.oster@uni-luebeck.de